

Top Scores (out of 20) CFD: 20 Dynamic: 20

Automatic control: 19

Hydraulic and pneumatic systems: 20 Fluid Mechanics Laboratory: 20 Engineering Mathematics: 19 Refrigeration systems design: 20

English & GRE Tests

TOEFL: 83

Other Related Courses Machine learning MATLAB in mechanical engineering Python programming Photoshop and ICDL

Hobbies **Professional Swimmer** Amateur diver And lifeguard training Undergoing swimming coaching Astronomer

Esmaeil Foladi Director of the Bushehr Vehicle **Inspection Center**

Phone: +98 (939) 549-5838

ELHAM RAJAEI

January 5, 2002

Bushehr, Iran +98 (917) 905-4907 elhamrajaei2002@gmail.com

2020 - 2024

September 2021

From April

2024

2021 2021

August 2022

Education

B.Sc. in Mechanical engineering GPA: 3.81 (18.37 out of 20) Islamic Azad University (IAU), Bushehr, Iran QS 394 QS 2 in Iran

Thesis title: The Performance of Various Types of Fuel Cells in Hybrid Vehicles

Supervisor: Dr. Mehdi Nakisa

Research Interests

■ Renewable energy systems and alternative fuels

■ Computational fluid dynamics (CFD) and its applications ■ Combustion modeling and engine performance optimization

■ Ship propulsion systems and design optimization

■ Power generation and energy storage system

■ Offshore engineering / Hybrid vehicle design

SolidWorks ANSYS FLUENT COMSOL Multiphysics MATLAB AutoCAD

Teaching Experience

Islamic Azad University

Problem-solving class for the lesson on resistance of materials Eng. Rasoul Dashtiari September 2022

Teaching assistant in a physics laboratory for 1st and 2nd-semester students

Dr. Hamid Vanaee

Mehr Observatory of Bushehr

Voluntary teaching of astronomy and astrophysics 2017 - 2019

Work Experience

Mechanical Engineer at the Heavy-duty Vehicles Inspection Center
Repairs of vessels in Bushehr port
Apprenticeship in the section of repairs, maintenance, and inspection of Vessels

Research Experience

The review Performance of Various Types of Fuel Cells in Hybrid Vehicles Prof. Mehdi Nakisa

Aluminum hardness test project, comparison of laboratory results and COMSOL

Multiphysics software and high strength alloy manufacturing Cooperation with the Mechanical Department of Persian Gulf University

Award & Honors

1st GPA rank in the Mechanical Engineering Department in 2023

I will be the first to graduate from the incoming class of 2020 in the Department of Mechanical Engineering

Received a full scholarship in Iranian university entrance examination for

JUNDI-SHAPUR University of Technology

Middle school and high school education at the high school of

National Organization for Development of Exceptional Talents

Courses, Conferences & Certificate
Advanced industrial plumbing and fluids with an internationally recognized certificate
Participation in the Iran Mechanics Conference 2023

Participating in the course and obtaining a degree in SolidWork software Obtaining the HSE certificate at Persian Gulf University

References

Prof. Mohammad Hadi Atabekzadeh

Dean of Technical and Engineering Faculty Islamic Azad University, Bushehr, Iran

Phone: +98 (917) 378-5167

Email: mh atabak@yahoo.com

Dr. Mehdi Nakisa

Assistant Professor

Islamic Azad University, Bushehr, Iran

Email: mnakisa2003@yahoo.com Phone: +98 (917) 173-1664

Publications

Rajaei E., (2023). The Performance of Various Types of Fuel Cells in Hybrid

Vehicles. (Presented at the Iran Mechanical Engineering Conference 2023)

Poro A., Rajaei E. and others. (No. 7, 2020). Analysis of Observational Parameters in

the Timing Accuracy of Lunar Occultations. Journal of Occultation and Eclipse (JOE)